

## INTERNATIONAL SEARCH REPORT

Internat Application No  
PCT/EP 03/09590

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61K49/06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61K G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ, BIOSIS, MEDLINE

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|------------|---|-----------------------|
| X          | WO 00 71166 A (MORGENSTJERNE AXEL ;MOY DAVID (GB); NYCOMED IMAGING AS (NO); HANSS) 30 November 2000 (2000-11-30) page 3, line 34 -page 7, line 10; claim 1 cited in the application   | 1,7-9                 |
| X          | GOLMAN K ET AL: "Parahydrogen-induced polarization in imaging: subsecond /sup 13/C angiography" MAGNETIC RESONANCE IN MEDICINE, JULY 2001, WILEY, USA, vol. 46, no. 1, pages 1-5, XP002263068 ISSN: 0740-3194 page 1 -page 2 cited in the application | 1,9                   |

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance  
"E" earlier document but published on or after the international filing date  
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
"O" document referring to an oral disclosure, use, exhibition or other means  
"P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.  
"&" document member of the same patent family

Date of the actual completion of the international search

27 November 2003

Date of mailing of the international search report

5. 01. 2004

Name and mailing address of the ISA

European Patent Office, P.B. 6818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

BO GUSTAVSSON/MN

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/09590

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|------------|--|-----------------------|
| A          | <p>BARKEMEYER J ET AL: "Heteronuclear polarization transfer using selective pulses during hydrogenation with parahydrogen"</p> <p>JOURNAL OF MAGNETIC RESONANCE, SERIES A, MAY 1996, ACADEMIC PRESS, USA, vol. 120, no. 1, pages 129-132, XP002263069</p> <p>ISSN: 1064-1858</p> <p>the whole document</p> | 1                     |
| A          | <p>WO 02 23210 A (MOY DAVID ;NYCOMED IMAGING AS (NO); JOHANNESON HAUKEUR (SE); AXELSS)</p> <p>21 March 2002 (2002-03-21)</p> <p>page 4, line 36 -page 5, line 38</p> <p>abstract</p>   | 1                     |

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/09590

| Patent document<br>cited in search report | Publication<br>date | Patent family<br>member(s)   | Publication<br>date  |
|---|---------------------|--|--|
| WO 0071166 A                              | 30-11-2000          | AU 4772300 A<br>CA 2372572 A1<br>CN 1357111 T<br>EP 1179189 A2<br>WO 0071166 A2<br>JP 2003500369 T<br>US 2002137965 A1 | 12-12-2000<br>30-11-2000<br>03-07-2002<br>13-02-2002<br>30-11-2000<br>07-01-2003<br>26-09-2002 |
| WO 0223210 A                              | 21-03-2002          | WO 0223210 A1<br>US 2003212323 A1  | 21-03-2002<br>13-11-2003   |